SRI Satellite Workshop July 13-14, 2015

Emerging Opportunities in High Energy X-ray Science: The Diffraction Limited Storage Ring Frontier

Monday, July 13, 15		
7:45	Refreshments	**Building 402/E1100**
	JOINT PLENARY SESSION	**Building 401/A1100**
8:15	Linda Young	Welcome
8:30	Henning Poulsen	Hard x-ray microscopy for multiscale materials science
9:00	Wendy Mao	Opportunities for high pressure science at the diffraction limit
9:30	Matt Tirrell	Multivalent interactions in ion-containing polymers
10:00	Break - Group Photo	
Chair	*David Tiede*	
10:30	Sossina Haile	Insights into Oxygen Electroreduction on (La,Sr)MnO3
11:00	Joe Hupp	AIM-ing for Catalysis (Atomic-layer-deposition In Metal-organic framework materials)
11:30	Gayle Woloschak-Tatjana Paunesku	Biological studies with the bionanoprobe
12:00	Lunch	**Building 401/Lower Level Gallery**
		Building 401/A1100
Chair	*Stefan Vogt*	
1:45	Brian Stephenson	What can we get from improved transverse coherence at a synchrotron
2:30	Xianbo Shi	Optics considerations for APS-U
3:00	**PARALLEL FOCUS SESSIONS**	
	Structural Materials	**Building 401/A1100**
Chairs	*Bob Suter and Jon Almer*	
3:00	Tony Rollett	Grand Challenges in Structural Materials
3:40	Peter Voorhees	The Intersection of Simulation and Tomography
4:20	Uta Ruett	Surface diffraction with high energy X-rays
5:00	Attendees	Ideas from the floor
	Bob Suter	Thoughts from May workshop on Advanced Materials/Mesoscale Engineering
	Chemistry & Industrial Applications	**Building 402/E1100**
Chairs	*Dave Tiede, Pete Chupas and Mali Balasubramanian*	
3:00	Wenbin Lin	Metal-organic Frameworks for Sustainable Catalysis and Energy Production
3:40	Conal Murray	Exploring the future of nanoelectronics using x-rays
4:20	Attendees	Ideas from the floor
	Pete Chupas	Thoughts from May workshop on Advanced Materials/Mesoscale Engineering
	David Tiede	Thoughts from May workshop on Chemistry and Catalysis
	Environmental & Earth Science	**Building 402/E1200**
Chairs	*John Parise and Jesse Smith*	
3:00	Tony Lanzirotti	Opportunities in Earth, Environmental and Extreme Conditions Science at hard x-ray diffraction limited storage rings
3:40	Jennifer Jackson	Exploring atomic dynamics under extreme conditions
4:20	Attendees	Ideas from the floor
	John Parise	Thoughts from May workshop on Earth, Environmental and Extreme Conditions Science
5:30	Dinner at Argonne Guest House	(Registered dinner attendees only)

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Tuesday, July 14, 15		
8:00	Refreshments	**Building 402/E1100**
9:00	**PARALLEL FOCUS SESSIONS**	
	Materials Synthesis & Condensed Matter	**Buillding 401/A1100**
Chairs	*Paul Evans and Haidan Wen*	
9:00	Oleg Shpyrko	Coherent X-ray Nano-Vision
9:40	Darrell Schlom	Establishing How Oxide Films Grow: An Essential Part of the Materials by Design Dream
10:20	Attendees	Ideas from the floor
	John Freeland	Thoughts from May workshop on Condensed Matter Physics
	Soft Materials & Bioscience	**Building 402/E1100**
Chairs	*Byeongdu Lee and Stefan Vogt*	
9:00	Stephen Cheng	Giant Surfactants based on Precisely Functionalized POSS Nano-atoms: Tuning from Crystals to Frank-Kasper Phases and Quasicrystals
9:40	Hyunjung Kim	Use of Coherence in Hard X-rays to Study Dynamics and Structure
10:20	Attendees	Ideas from the floor
	Bob Leheny	New Opportunities in Soft Matter Research Employing High Energy X-rays
	Bob Fischetti	Thoughts from June workshop on Biology and Life Science
12:00	Lunch	**Building 401/Lower Level Gallery**
1:30	**Joint Closeout (15 min each)**	**Building 401/A1100**
Chair	*Paul Evans*	
	Structural Materials	
	Chemistry & Industrial Applications	
	Environmental & Earth Science	
	Materials Synthesis & Condensed Matter	
	Soft Materials & Bioscience	
3:00	End of Workshop	